



# SEA LEVEL VARIABILITY IN PEMBA, NORTH OF MOZAMBIQUE

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# The coastal risk assessment in Pemba station

- **Sea Level (SL) variability** has been a **concern** for the lives and activities of the population **in coastal zone**.
- The rise in SL increases the water depth and impacts the tides in terms of their dynamics and amplitude.
- The tidal dynamic may alter the coastal habitats and the seafront
- In a **station in Pemba** harbour (Lat **-12.96°S**, Long **40.55°E**), north Mozambique, was assessed the risk of coastal sea level rise:
  - SL is highest during February-March and lowest during September-October
  - An estimate of the **SL trend** showed a rise **0.0183mm per year**, value not significant enough to induce an increase in high water levels

